

Ziad Mohamed Sheashaa

ziadmohamedgamal25@gmail.com | +20 120 481 7795 | Portfolio | LinkedIn | GitHub

Summary

Motivated and curious, with a passion for continuous learning. Experienced in programming and technology, with growing expertise in AI, software development, and data-driven solutions. Creative, analytical, and detail-oriented.

Education

Suez Canal University (SCU), BE in Computer Engineering Jul 2026

Summer Training

Generative AI Training — ITI Jul 2025 – Aug 2025
Artificial Intelligence Training — ITI Jul 2024 – Aug 2024

Courses

ROS2 — Robotics Corner Dec 2024 – May 2025
Software Engineering — Robotics Corner Aug 2024 – Dec 2024
Deep Learning — E.Camp Jul 2024 – Aug 2024
Artificial Intelligence Training — ITI Jul 2024 – Aug 2024
Machine Learning — E.Camp Feb 2024 – Mar 2024
Artificial Intelligence — Zewail City of Science and Technology Aug 2023 – Nov 2023
Artificial Intelligence — Huawei Jan 2023 - Feb 2023

Volunteering Activities

AI Team Vice Leader, Microsoft Student Community - SCU Mar 2025 – Present

- Designing and leading an AI training program for students

Autonomous Driving Team Leader, Racing Team SCU Oct 2024 – Present

- Trained and mentored 20 members in autonomous driving software development
- Supervised project progress and guided members in problem-solving and system design

Autonomous Driving Team Member, Racing Team - SCU Mar 2024 – Oct 2024

- Built an Autonomous Driving System for the SCU Racing Team
- Competed in the EVER Gen 5th international competition for electric cars

AI Technical Member, IEEE - SCU Oct 2023 – Present

- Contributed to technical projects and workshops in computer engineering, software development, and machine learning
- Developed a recommendation system using Python, HTML/CSS/JS, MongoDB, and unsupervised ML algorithms
- Mentored new members in AI algorithms and data analysis methodologies

Certifications

HCIA-AI – Huawei Jan 2023
Career Essentials in Generative AI - Microsoft & LinkedIn Nov 2023

Projects

NASA 2025 - TERRA Climate Education Platform — Next.js, TypeScript, React, Scikit-learn Oct 2025

- Developed machine learning models using Scikit-learn to predict future climate patterns from historical NASA Earth observation data
- Integrated Gemini API-powered chatbot with custom prompt engineering to deliver domain-specific climate insights and personalized environmental guidance
- Built interactive educational game that visualizes the impact of user decisions on climate using ML predictions
- Created engaging platform to raise climate awareness among youth through gamification and AI-driven feedback

Cascade Classifier for Object Detection — C++, Qt, OpenCV Dec 2024

- Implemented a face object detection model using Haar cascade classifier
- Integrated GUI in Qt for real-time detection and performance visualization

Autonomous Driving System (EVER Gen 5th Competition) — ROS, Python, C++ Aug 2024

- Developed core software modules for the SCU Racing Team's autonomous vehicle
- Implemented perception and control pipelines using ROS2 and Python
- Contributed to the team's participation in the EVER Gen 5th international competition for electric cars

Hand Sign Classifier — Python, TensorFlow, Arduino, C++ Feb 2024

- Collected and curated multiple custom datasets for hand sign recognition
- Trained and evaluated several models, achieving 89% accuracy on 10 distinct signs
- Integrated the trained model with Arduino and LCD to display real-time sign translations

Recommendation System — Python, HTML/CSS/JS, MongoDB, Scikit-learn Mar 2023

- Built a movie recommendation system using unsupervised ML algorithms
- Designed full-stack integration with MongoDB backend and web interface

Skills

- **Programming Languages:** C++, Python, JavaScript, SQL
- **Frameworks & Libraries:** ROS2, OpenCV, TensorFlow, PyTorch
- **Tools & Platforms:** Git & GitHub, Linux, Docker, MongoDB, CMake, Makefile
- **Software Engineering:** Data Structures & Algorithms, OOP, SOLID Principles, Design Patterns
- **AI & ML:** Machine Learning, Deep Learning, Computer Vision, Generative AI

Languages

- Arabic – Native
- English – Intermediate